

A Virtual Social Support System for Long-Duration Space Exploration Missions, Phase I

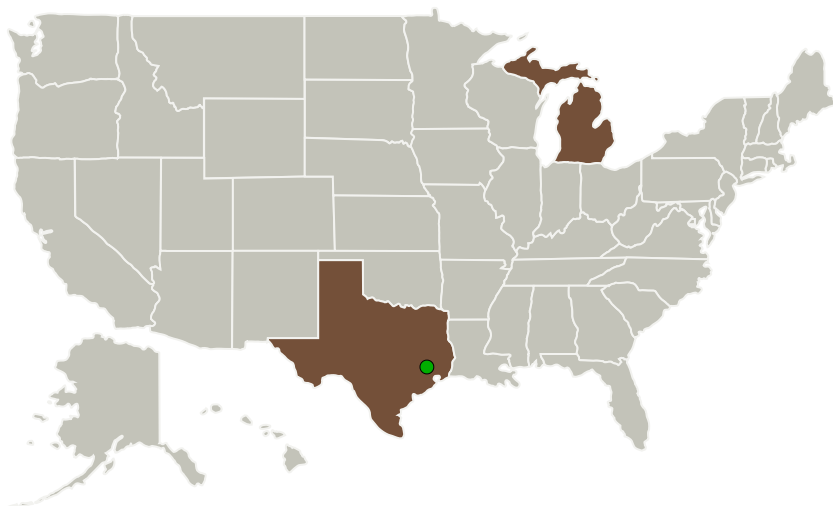
Completed Technology Project (2013 - 2013)



Project Introduction

Our overall goal is to enhance the overall behavior health and performance of personnel on (future potential) long-duration missions. We propose to use a local representation of the Second Life virtual world, along with our computer graphics and artificial intelligence background, to make a highly interactive and responsive environment between groups of people that are literally worlds apart in communication distance. By having the interactions occur this way, there is no communication latency that needs to be dealt with, because content is updated asynchronously. We will also leverage and adapt our Automated Behavior and Cohesion Assessment Tools system, previously developed under a recent NASA Phase II SBIR, to measure behavior health and performance.

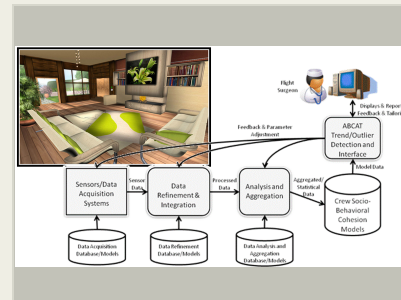
Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
● Johnson Space Center(JSC)	Supporting Organization	NASA Center	Houston, Texas

Primary U.S. Work Locations

Michigan	Texas
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Table of Contents

Project Introduction	1
Primary U.S. Work Locations and Key Partners	1
Organizational Responsibility	1
Project Transitions	2
Images	2
Project Management	2
Technology Maturity (TRL)	2
Technology Areas	2
Target Destinations	3

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Transitions

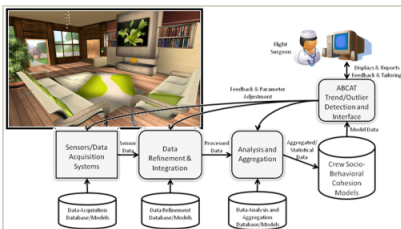
May 2013: Project Start

November 2013: Closed out

Closeout Documentation:

- Final Summary Chart(<https://techport.nasa.gov/file/137933>)

Images



Project Image

A Virtual Social Support System for Long-Duration Space Exploration Missions

(<https://techport.nasa.gov/image/132624>)

Project Management

Program Director:

Jason L Kessler

Program Manager:

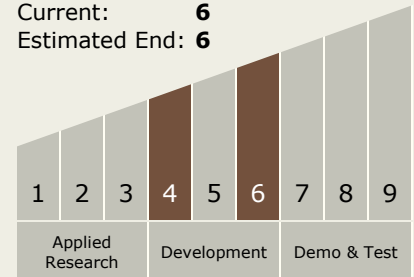
Carlos Torrez

Principal Investigator:

Charles Jacobus

Technology Maturity (TRL)

Start: 4
Current: 6
Estimated End: 6



Technology Areas

Primary:

- TX06 Human Health, Life Support, and Habitation Systems
 - TX06.3 Human Health and Performance
 - TX06.3.3 Behavioral Health and Performance

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Target Destinations

The Sun, Earth, The Moon,
Mars, Others Inside the Solar
System, Outside the Solar
System